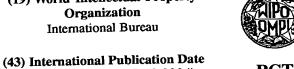
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(54) Title: ALUMINIUM-WETTABLE CARBON-BASED BODY

(57) Abstract: A carbon body has an aluminium-wettable outer part that is made of a carbon-rich mixture containing aluminiumreactable metal-based particles and carbon. The metal-based particles are made of metal oxide particles and/or partly oxidised metal particles. The metal of the metalbased particles is selected from iron, copper, cobalt, nickel, zinc and manganese. The carbon body can be used in an aluminium electrowinning cell, e.g. as a cathode, or in an apparatus for treating molten aluminium and is wetted by molten aluminium during use.



INTERNATIONAL SEARCH REPORT

International Application No

❤CT/IB2004/050457 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C25C3/08 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C25C IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 1-14WO 01/42168 A (NORA VITTORIO DE ; DURUZ X 32 - 39JEAN JACQUES (CH); MOLTECH INVENT SA (LU)) 14 June 2001 (2001-06-14) page 4, line 7 - page 10, line 10 1-14.WO 98/17843 A (NORA VITTORIO DE ; DURUZ X 32 - 39JEAN JACQUES (CH); MOLTECH INVENT SA (LU); LI) 30 April 1998 (1998-04-30) claims 1-3,9-12,23-28 32 US 4 699 763 A (HOYER NORMAN S ET AL) X 13 October 1987 (1987-10-13) claim 1 32 US 4 670 407 A (KIEHL JEAN-PIERRE ET AL) X 2 June 1987 (1987-06-02) claim 3 -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. "T" later document published after the International filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier document but published on or after the International "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 09/12/2004 30 November 2004 **Authorized officer** Name and malling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

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